

Experiment Number: 20702 - 01

Test Type: 90-DAY

Route: DOSED FEED

Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Usnea Lichen

CAS Number: USNEALICHEN

Date Report Requested: 12/03/2020

Time Report Requested: 12:51:12

First Dose M/F: 02/14/09 / 02/14/09

Lab: NCTR

NTP Study Number: C20702

Lock Date: 07/01/2013

Cage Range: ALL

Date Range: ALL

Reasons For Removal: ALL

Removal Date Range: ALL

Treatment Groups: Include ALL

Study Gender: Both

TDMSE Version: 3.0.2.3_002

PWG Approval Date: NONE

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Lab: NCTR

FISCHER 344 RATS-NCTR RATS MALE Control 0 PPM	DAY ON TEST ANIMAL ID	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		9	9	9	9	9	9	9	9	9	9
		5	5	5	5	5	5	5	5	5	5
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	1	1	1
		2	2	3	3	6	6	8	9	1	1
		1	3	3	5	1	3	9	1	7	9
		* TOTALS									

ALIMENTARY SYSTEM

Esophagus	+	+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	10
Liver	+	+	+	+	+	+	+	+	+	+	+	10
Inflammation, Chronic Active	1	1	1				1	1				5 1.0
Hepatocyte, Degeneration				1								1 1.0
Pancreas	+	+	+	+	+	+	+	+	+	+	+	10
Vacuolization Cytoplasmic							2					1 2.0
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	10
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	10
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	10

CARDIOVASCULAR SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
+ .. Tissue examined microscopically M .. Missing tissue
X .. Lesion present A .. Autolysis precludes evaluation
I .. Insufficient tissue BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:
1) Minimal 3) Moderate
2) Mild 4) Marked

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CAS Number: USNEALICHEN

First Dose M/F: 02/14/09 / 02/14/09

Species/Strain: RATS/F 344/NCTR

Lab: NCTR

FISCHER 344 RATS-NCTR RATS MALE Control 0 PPM	DAY ON TEST ANIMAL ID													* TOTALS
		0 0 9 5												
Blood Vessel		+	+	+	+	+	+	+	+	+	+	+	+	10
Heart		+	+	+	+	+	+	+	+	+	+	+	+	10
Cardiomyopathy		1	2	1	2		1	1	1					7 1.3
ENDOCRINE SYSTEM														
Adrenal Cortex		+	+	+	+	+	+	+	+	+	+	+	+	10
Vacuolization Cytoplasmic		1	2	1	2									4 1.5
Adrenal Medulla		+	+	+	+	+	+	+	+	+	+	+	+	10
Islets, Pancreatic		+	+	+	+	+	+	+	+	+	+	+	+	10
Parathyroid Gland		+	+	+	+	+	+	+	+	+	+	+	+	10
Pituitary Gland		+	+	+	+	+	+	+	+	+	+	+	+	10
Thyroid Gland		+	+	+	+	+	+	+	+	+	+	+	+	10
Ectopic Thymus							X							1
GENERAL BODY SYSTEM														
Tissue NOS		+												1
Mediastinum, Hemorrhage		4												1 4.0
GENITAL SYSTEM														
Epididymis		+	+	+	+	+	+	+	+	+	+	+	+	10
Preputial Gland		+	+	+	+	+	+	+	+	+	+	+	+	10

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 Lab: NCTR

FISCHER 344 RATS-NCTR RATS MALE Control 0 PPM	DAY ON TEST ANIMAL ID													* TOTALS
		0 0 9 5												
Inflammation, Suppurative		1												2 1.5
Inflammation, Chronic Active		3	2											3 2.3
Prostate		+	+	+	+	+	+	+	+	+	+	+	+	10
Seminal Vesicle		+	+	+	+	+	+	+	+	+	+	+	+	10
Testes		+	+	+	+	+	+	+	+	+	+	+	+	10
HEMATOPOIETIC SYSTEM														
Bone Marrow		+	+	+	+	+	+	+	+	+	+	+	+	10
Lymph Node, Mandibular		+	+	+	+	+	+	+	+	+	+	+	+	10
Lymph Node, Mesenteric Hyperplasia, Lymphoid		+	+	+	+	+	+	+	+	+	+	+	+	10
		2	2											2 2.0
Spleen		+	+	+	+	+	+	+	+	+	+	+	+	10
Thymus		+	+	+	+	+	+	+	+	+	+	+	+	10
INTEGUMENTARY SYSTEM														
Mammary Gland		+	+	+	+	+	+	+	+	+	+	+	+	10
Skin		+	+	+	+	+	+	+	+	+	+	+	+	10
MUSCULOSKELETAL SYSTEM														
Bone, Femur		+	+	+	+	+	+	+	+	+	+	+	+	10

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Lab: NCTR

FISCHER 344 RATS-NCTR RATS MALE Control 0 PPM	DAY ON TEST												
		0	0	0	0	0	0	0	0	0	0	0	0
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	1	1	1	1	1
	2	2	3	3	6	6	8	9	1	1	1	1	1
	1	3	3	5	1	3	9	1	7	9	9	9	9
		* TOTALS											

NERVOUS SYSTEM

Brain, Brain Stem	+	+	+	+	+	+	+	+	+	+	+	+	10
Brain, Cerebellum	+	+	+	+	+	+	+	+	+	+	+	+	10
Brain, Cerebrum	+	+	+	+	+	+	+	+	+	+	+	+	10
Gliosis													2
Mineralization													2
													1 2.0
													1 2.0

RESPIRATORY SYSTEM

Lung	+	+	+	+	+	+	+	+	+	+	+	+	10
Hemorrhage													2
Nose	+	+	+	+	+	+	+	+	+	+	+	+	10
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	10

SPECIAL SENSES SYSTEM

Eye	+	+	+	+	+	+	+	+	+	+	+	+	10
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	10

URINARY SYSTEM

Kidney	+	+	+	+	+	+	+	+	+	+	+	+	10
Hyaline Droplet													3
Hydronephrosis													2
Mineralization													1

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FISCHER 344 RATS-NCTR RATS MALE Control 0 PPM	DAY ON TEST	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	
ANIMAL ID		9	9	9	9	9	9	9	9	9	9	
		5	5	5	5	5	5	5	5	5	5	
		0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	1	1		
		2	2	3	3	6	6	8	9	1	1	
		1	3	3	5	1	3	9	1	7	9	
		* TOTALS										
Nephropathy		1				1				3 1.0		
Urinary Bladder		+ + + + + + + + + +										10

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+ .. Tissue examined microscopically

X .. Lesion present

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M .. Missing tissue

A .. Autolysis precludes evaluation

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Lab: NCTR

FISCHER 344 RATS-NCTR RATS MALE USNEA 30 PPM	ANIMAL ID	DAY ON TEST											
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0
		9	9	9	9	9	9	9	9	9	9	9	9
		5	5	5	5	5	5	5	5	5	5	5	5
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	1	1	1	1
		0	0	4	4	5	5	7	7	0	0	0	0
		1	3	5	7	3	5	3	5	1	3	*	TOTALS

ALIMENTARY SYSTEM

Liver	+	+	+	+	+	+	+	+	+	+	+	+	10
Deformity													1
Inflammation, Chronic Active													1 2.0
Necrosis													1 1.0
	2												
	1												

CARDIOVASCULAR SYSTEM

NONE

ENDOCRINE SYSTEM

NONE

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

NONE

HEMATOPOIETIC SYSTEM

NONE

INTEGUMENTARY SYSTEM

NONE

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

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Lab: NCTR

FISCHER 344 RATS-NCTR RATS MALE USNEA 30 PPM	DAY ON TEST ANIMAL ID												
		0 0 9 5											
		0 0 0 0 0 0 0 0 0 0 0 0 0 0 1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 3	0 0 0 0 0 0 0 0 0 0 0 0 0 0 5	0 0 0 0 0 0 0 0 0 0 0 0 0 0 7	0 0 0 0 0 0 0 0 0 0 0 0 0 0 5	0 0 0 0 0 0 0 0 0 0 0 0 0 0 1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

* TOTALS

MUSCULOSKELETAL SYSTEM

NONE

NERVOUS SYSTEM

NONE

RESPIRATORY SYSTEM

NONE

SPECIAL SENSES SYSTEM

NONE

URINARY SYSTEM

NONE

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+ .. Tissue examined microscopically

X .. Lesion present

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First Dose M/F: 02/14/09 / 02/14/09

Lab: NCTR

FISCHER 344 RATS-NCTR RATS MALE USNEA 60 PPM	ANIMAL ID	DAY ON TEST											
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0
		9	9	9	9	9	9	9	9	9	9	9	9
		5	5	5	5	5	5	5	5	5	5	5	5
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	1	1	1	1
		0	1	2	3	6	7	8	8	0	0	0	0
		9	1	9	1	9	1	1	3	5	7	7	7
* TOTALS													

ALIMENTARY SYSTEM

Liver	+	+	+	+	+	+	+	+	+	+	+	+	10
Inflammation, Chronic Active						1							3 1.0
Hepatocyte, Degeneration						2							1 2.0

CARDIOVASCULAR SYSTEM

NONE

ENDOCRINE SYSTEM

NONE

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

NONE

HEMATOPOIETIC SYSTEM

NONE

INTEGUMENTARY SYSTEM

NONE

MUSCULOSKELETAL SYSTEM

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Lab: NCTR

FISCHER 344 RATS-NCTR RATS MALE USNEA 60 PPM	ANIMAL ID	DAY ON TEST											
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0
		9	9	9	9	9	9	9	9	9	9	9	9
		5	5	5	5	5	5	5	5	5	5	5	5
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	1	1	1	1
		0	1	2	3	6	7	8	8	0	0	0	0
		9	1	9	1	9	1	1	3	5	7	7	7

* TOTALS

NONE

NERVOUS SYSTEM

NONE

RESPIRATORY SYSTEM

NONE

SPECIAL SENSES SYSTEM

NONE

URINARY SYSTEM

NONE

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Lab: NCTR

FISCHER 344 RATS-NCTR RATS MALE USNEA 120 PPM	DAY ON TEST ANIMAL ID												
		0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	
	9	9	9	9	9	9	9	9	9	9	9	9	
	5	5	5	5	5	5	5	5	5	5	5	5	
	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	
	1	1	3	3	5	5	7	7	7	9	9	9	
	7	9	7	9	7	9	7	9	7	9	7	9	
													* TOTALS

ALIMENTARY SYSTEM

Liver	+	+	+	+	+	+	+	+	+	+	+	+	10
Cyst	2												1 2.0
Inflammation, Chronic Active		1			1			1	1				4 1.0
Hepatocyte, Degeneration	1	2				1	1	1	1				6 1.2

CARDIOVASCULAR SYSTEM

NONE

ENDOCRINE SYSTEM

NONE

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

NONE

HEMATOPOIETIC SYSTEM

NONE

INTEGUMENTARY SYSTEM

NONE

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X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

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FISCHER 344 RATS-NCTR RATS MALE USNEA 120 PPM	ANIMAL ID	DAY ON TEST											
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0
		9	9	9	9	9	9	9	9	9	9	9	9
		5	5	5	5	5	5	5	5	5	5	5	5
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0
		1	1	3	3	5	5	7	7	9	9	9	9
		7	9	7	9	7	9	7	9	7	9	7	9

* TOTALS

MUSCULOSKELETAL SYSTEM

NONE

NERVOUS SYSTEM

NONE

RESPIRATORY SYSTEM

NONE

SPECIAL SENSES SYSTEM

NONE

URINARY SYSTEM

NONE

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Lab: NCTR

FISCHER 344 RATS-NCTR RATS MALE USNEA 360 PPM	DAY ON TEST ANIMAL ID	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
FISCHER 344 RATS-NCTR RATS MALE USNEA 360 PPM	DAY ON TEST ANIMAL ID	9	9	9	9	9	9	9	9	9	9
		5	5	5	5	5	5	5	5	5	5
FISCHER 344 RATS-NCTR RATS MALE USNEA 360 PPM	DAY ON TEST ANIMAL ID	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
FISCHER 344 RATS-NCTR RATS MALE USNEA 360 PPM	DAY ON TEST ANIMAL ID	0	0	0	0	0	0	0	1	1	1
		0	0	4	4	6	6	9	9	1	1
FISCHER 344 RATS-NCTR RATS MALE USNEA 360 PPM	DAY ON TEST ANIMAL ID	5	7	1	3	5	7	3	5	3	5

* TOTALS

ALIMENTARY SYSTEM

Esophagus	+	+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	10
Liver	+	+	+	+	+	+	+	+	+	+	+	10
Inflammation, Chronic Active	1											3 1.0
Tension Lipidosis	2											1 2.0
Hepatocyte, Degeneration	2	2	1	1	2	2	1	3	3	3	1	10 1.8
Pancreas	+	+	+	+	+	+	+	+	+	+	+	10
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	10
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	10
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	10

CARDIOVASCULAR SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20702 - 01

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Date Report Requested: 12/03/2020

Test Type: 90-DAY

Usnea Lichen

Time Report Requested: 12:51:12

Route: DOSED FEED

CAS Number: USNEALICHEN

First Dose M/F: 02/14/09 / 02/14/09

Species/Strain: RATS/F 344/NCTR

Lab: NCTR

FISCHER 344 RATS-NCTR RATS MALE USNEA 360 PPM	DAY ON TEST ANIMAL ID	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	
		9	9	9	9	9	9	9	9	9	9	
		5	5	5	5	5	5	5	5	5	5	
		0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	1	1		
		0	0	4	4	6	6	9	9	1	1	
		5	7	1	3	5	7	3	5	3	5	
		* TOTALS										
Blood Vessel		+	+	+	+	+	+	+	+	+	+	10
Heart		+	+	+	+	+	+	+	+	+	+	10
Cardiomyopathy				1	1	1	1	1	1	1	1	7 1.0

ENDOCRINE SYSTEM

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	10
Vacuolization Cytoplasmic			2			1						2 1.5
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	10
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	10
Parathyroid Gland	+	+	+	+	+	+	+	+	+	+	+	10
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	10
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	10

GENERAL BODY SYSTEM

NONE												
------	--	--	--	--	--	--	--	--	--	--	--	--

GENITAL SYSTEM

Epididymis	+	+	+	+	+	+	+	+	+	+	+	10
Preputial Gland	+	+	+	+	+	+	+	+	+	+	+	10
Infiltration Cellular, Lymphocyte	1											1 1.0
Inflammation, Suppurative		1	2	2				3				4 2.0

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

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Experiment Number: 20702 - 01

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Date Report Requested: 12/03/2020

Test Type: 90-DAY

Usnea Lichen

Time Report Requested: 12:51:12

Route: DOSED FEED

CAS Number: USNEALICHEN

First Dose M/F: 02/14/09 / 02/14/09

Species/Strain: RATS/F 344/NCTR

Lab: NCTR

FISCHER 344 RATS-NCTR RATS MALE USNEA 360 PPM	ANIMAL ID	DAY ON TEST												* TOTALS
		0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	
		9	9	9	9	9	9	9	9	9	9	9	9	
		5	5	5	5	5	5	5	5	5	5	5	5	
		0	0	0	0	0	0	0	0	0	0	0	0	
Duct, Ectasia							2			3				2 2.5
Prostate		+	+	+	+	+	+	+	+	+	+			10
Seminal Vesicle		+	+	+	+	+	+	+	+	+	+			10
Testes		+	+	+	+	+	+	+	+	+	+			10
HEMATOPOIETIC SYSTEM														
Bone Marrow		+	+	+	+	+	+	+	+	+	+			10
Lymph Node, Mandibular Hyperplasia, Lymphoid		+	+	+	+	+	+	+	+	+	+			10
		2												1 2.0
Lymph Node, Mesenteric Hyperplasia, Lymphoid		+	+	+	+	+	+	+	+	+	+			10
		2												3 2.0
Spleen		+	+	+	+	+	+	+	+	+	+			10
Thymus		+	+	+	+	+	+	+	+	+	+			10
INTEGUMENTARY SYSTEM														
Mammary Gland		+	+	+	+	+	+	+	+	+	+			10
Skin		+	+	+	+	+	+	+	+	+	+			10
MUSCULOSKELETAL SYSTEM														
Bone, Femur		+	+	+	+	+	+	+	+	+	+			10

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

M .. Missing tissue

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Experiment Number: 20702 - 01

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Date Report Requested: 12/03/2020

Test Type: 90-DAY

Usnea Lichen

Time Report Requested: 12:51:12

Route: DOSED FEED

CAS Number: USNEALICHEN

First Dose M/F: 02/14/09 / 02/14/09

Species/Strain: RATS/F 344/NCTR

Lab: NCTR

FISCHER 344 RATS-NCTR RATS MALE USNEA 360 PPM	DAY ON TEST ANIMAL ID	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		9	9	9	9	9	9	9	9	9	9
		5	5	5	5	5	5	5	5	5	5
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	1	1	1
		0	0	4	4	6	6	9	9	1	1
		5	7	1	3	5	7	3	5	3	5
		* TOTALS									

NERVOUS SYSTEM

Brain, Brain Stem	+	+	+	+	+	+	+	+	+	+	+	10
Brain, Cerebellum	+	+	+	+	+	+	+	+	+	+	+	10
Brain, Cerebrum	+	+	+	+	+	+	+	+	+	+	+	10

RESPIRATORY SYSTEM

Lung	+	+	+	+	+	+	+	+	+	+	+	10
Alveolar Epithelium, Hyperplasia												1 1.0
Nose	+	+	+	+	+	+	+	+	+	+	+	10
Trachea	+	+	+	+	+	+	+	+	+	+	+	10

SPECIAL SENSES SYSTEM

Eye	+	+	+	+	+	+	+	+	+	+	+	10
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	10
Infiltration Cellular, Lymphocyte												1 1.0

URINARY SYSTEM

Kidney	+	+	+	+	+	+	+	+	+	+	+	10
Casts Protein												2 1.0
Nephropathy	1		1		1		1		1		4 1.0	

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

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2) Mild 4) Marked

Experiment Number: 20702 - 01

Test Type: 90-DAY

Route: DOSED FEED

Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Usnea Lichen

CAS Number: USNEALICHEN

Date Report Requested: 12/03/2020

Time Report Requested: 12:51:12

First Dose M/F: 02/14/09 / 02/14/09

Lab: NCTR

FISCHER 344 RATS-NCTR RATS MALE USNEA 360 PPM	DAY ON TEST ANIMAL ID												
		0 0 9 5	0 0 9 5	0 0 9 5	0 0 9 5	0 0 9 5	0 0 9 5	0 0 9 5	0 0 9 5	0 0 9 5	0 0 9 5	0 0 9 5	
Urinary Bladder		+ + + + + + + + + + +											10

* TOTALS

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

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Experiment Number: 20702 - 01

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Date Report Requested: 12/03/2020

Test Type: 90-DAY

Usnea Lichen

Time Report Requested: 12:51:12

Route: DOSED FEED

CAS Number: USNEALICHEN

First Dose M/F: 02/14/09 / 02/14/09

Species/Strain: RATS/F 344/NCTR

Lab: NCTR

FISCHER 344 RATS-NCTR RATS MALE USNEA 720 PPM	DAY ON TEST ANIMAL ID	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
3	5	4	3	3	3	4	3	3	3	3	3
		1	8	8	9	0	2	9	6	5	
1	3	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	
0	5	1	2	2	4	5	8	8	0	1	
		5	5	7	9	1	5	7	9	1	
* TOTALS											

ALIMENTARY SYSTEM

Esophagus	+	+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Ileum	+	+	+	+	+	+	A	+	+	+		9
Intestine Small, Jejunum	+	+	+	+	+	+	A	+	+	+		9
Liver	+	+	+	+	+	+	+	+	+	+		10
Hepatocyte, Degeneration	3	3	3	4	4	4	4	4	4	4		10 3.7
Pancreas	+	+	+	+	+	+	+	+	+	+		10
Infiltration Cellular, Lymphocyte												1 1.0
Salivary Glands	+	+	+	+	+	+	+	+	+	+		10
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+		10
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+		10

CARDIOVASCULAR SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

M .. Missing tissue

X .. Lesion present

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1-4 .. Lesion qualified as:

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Experiment Number: 20702 - 01

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Date Report Requested: 12/03/2020

Test Type: 90-DAY

Usnea Lichen

Time Report Requested: 12:51:12

Route: DOSED FEED

CAS Number: USNEALICHEN

First Dose M/F: 02/14/09 / 02/14/09

Species/Strain: RATS/F 344/NCTR

Lab: NCTR

FISCHER 344 RATS-NCTR RATS MALE USNEA 720 PPM	DAY ON TEST ANIMAL ID													* TOTALS
		0 0 3 5	0 0 4 1	0 0 3 8	0 0 3 8	0 0 3 9	0 0 4 0	0 0 3 2	0 0 3 9	0 0 3 6	0 0 3 5			
Blood Vessel		+	+	+	+	+	+	+	+	+	+			10
Heart		+	+	+	+	+	+	+	+	+	+			10
Myocardium, Vacuolization Cytoplasmic							2							1 2.0
ENDOCRINE SYSTEM														
Adrenal Cortex		+	+	+	+	+	+	+	+	+	+			10
Vacuolization Cytoplasmic		4	4	4	4	4	4	4	4	4	4			10 4.0
Adrenal Medulla		+	+	+	+	+	+	+	+	+	+			10
Islets, Pancreatic		+	+	+	+	+	+	+	+	+	+			10
Parathyroid Gland		+	+	+	+	+	+	+	+	+	+			10
Pituitary Gland		+	+	+	+	+	+	+	+	+	+			10
Thyroid Gland		+	+	+	+	+	+	+	+	+	+			10
Ectopic Thymus											X			1
GENERAL BODY SYSTEM														
NONE														
GENITAL SYSTEM														
Epididymis		+	+	+	+	+	+	+	+	+	+			10
Exfoliated Germ Cell		3	4	3	3	3	2	4	3	3	3			10 3.1
Hypospermia		4	4	4	4	4	4	4	4	4	4			10 4.0

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I .. Insufficient tissue

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1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20702 - 01
 Test Type: 90-DAY
 Route: DOSED FEED
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Usnea Lichen
 CAS Number: USNEALICHEN

Date Report Requested: 12/03/2020
 Time Report Requested: 12:51:12
 First Dose M/F: 02/14/09 / 02/14/09
 Lab: NCTR

FISCHER 344 RATS-NCTR RATS MALE USNEA 720 PPM	DAY ON TEST ANIMAL ID													* TOTALS
		0 0 3 5	0 0 4 1	0 0 3 8	0 0 3 8	0 0 3 9	0 0 4 0	0 0 3 2	0 0 3 9	0 0 3 6	0 0 3 5			
Preputial Gland Inflammation, Suppurative		+	+	+	+	+	+	+	+	+	+			10 8 3.0
		4	3	3	2	3	3	3	4	2				
Prostate Atrophy		+	+	+	+	+	+	+	+	+	+			10 10 4.0
		4	4	4	4	4	4	4	4	4	4			
Seminal Vesicle Atrophy		+	+	+	+	+	+	+	+	+	+			10 10 4.0
		4	4	4	4	4	4	4	4	4	4			
Testes Seminiferous Tubule, Degeneration		+	+	+	+	+	+	+	+	+	+			10 10 4.0
		4	4	4	4	4	4	4	4	4	4			
HEMATOPOIETIC SYSTEM														
Bone Marrow Congestion Hypocellularity		+	+	+	+	+	+	+	+	+	+			10 1 4.0 10 3.6
		4	4	4	3	3	4	4	3	3	4			
Lymph Node Lumbar, Hyperplasia, Lymphoid							+							1 1 2.0
							2							
Lymph Node, Mandibular Hyperplasia, Lymphoid		+	+	+	+	+	+	+	+	+	+			10 2 1.5
							1							
Lymph Node, Mesenteric		+	+	+	+	+	+	+	+	+	+			10
Spleen		+	+	+	+	+	+	+	+	+	+			10
Thymus Atrophy		+	+	+	+	+	+	+	+	+	+			10 9 3.8
		4	4	4	4	4	4	2	4	4				

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

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X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

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1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

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Experiment Number: 20702 - 01
 Test Type: 90-DAY
 Route: DOSED FEED
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Usnea Lichen
 CAS Number: USNEALICHEN

Date Report Requested: 12/03/2020
 Time Report Requested: 12:51:12
 First Dose M/F: 02/14/09 / 02/14/09
 Lab: NCTR

FISCHER 344 RATS-NCTR RATS MALE USNEA 720 PPM	DAY ON TEST ANIMAL ID													* TOTALS
		0 0 3 5	0 0 4 1	0 0 3 8	0 0 3 8	0 0 3 9	0 0 4 0	0 0 3 2	0 0 3 9	0 0 3 6	0 0 3 5			
Cyst												2		1 2.0
INTEGUMENTARY SYSTEM														
Mammary Gland Atrophy		+	+	+	+	+	+	+	+	+	+		10	9 2.3
Skin		3	2	3	2	3	2	2	2	2	2		10	
MUSCULOSKELETAL SYSTEM														
Bone, Femur		+	+	+	+	+	+	+	+	+	+		10	
NERVOUS SYSTEM														
Brain, Brain Stem		+	+	+	+	+	+	+	+	+	+		10	
Brain, Cerebellum		+	+	+	+	+	+	+	+	+	+		10	
Brain, Cerebrum		+	+	+	+	+	+	+	+	+	+		10	
RESPIRATORY SYSTEM														
Lung Congestion Infiltration Cellular, Histiocyte		+	+	+	+	+	+	+	+	+	+		10	1 3.0 1 1.0
Nose Malformation		1												1
Trachea		+	+	+	+	+	+	+	+	+	+		10	

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

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1-4 .. Lesion qualified as:

- 1) Minimal
- 3) Moderate
- 2) Mild
- 4) Marked

Experiment Number: 20702 - 01

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Date Report Requested: 12/03/2020

Test Type: 90-DAY

Usnea Lichen

Time Report Requested: 12:51:12

Route: DOSED FEED

CAS Number: USNEALICHEN

First Dose M/F: 02/14/09 / 02/14/09

Species/Strain: RATS/F 344/NCTR

Lab: NCTR

FISCHER 344 RATS-NCTR RATS MALE USNEA 720 PPM	DAY ON TEST ANIMAL ID	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		3	4	3	3	3	4	3	3	3	3
		5	1	8	8	9	0	2	9	6	5
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	1	1	1
		1	1	2	2	4	5	8	8	0	1
		3	5	5	7	9	1	5	7	9	1
		* TOTALS									

SPECIAL SENSES SYSTEM

Eye	+	+	+	+	+	+	+	+	+	+	+	10
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	10

URINARY SYSTEM

Kidney	+	+	+	+	+	+	+	+	+	+	+	10
Hydronephrosis				2			2					2 2.0
Nephropathy		1	1			1		1		1		5 1.0
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	10
Lumen, Dilatation						4						1 4.0

*** END OF MALE DATA ***

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

M .. Missing tissue

X .. Lesion present

A .. Autolysis precludes evaluation

I .. Insufficient tissue

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20702 - 01

Test Type: 90-DAY

Route: DOSED FEED

Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Usnea Lichen

CAS Number: USNEALICHEN

Date Report Requested: 12/03/2020

Time Report Requested: 12:51:12

First Dose M/F: 02/14/09 / 02/14/09

Lab: NCTR

FISCHER 344 RATS-NCTR RATS FEMALE Control 0 PPM	DAY ON TEST ANIMAL ID	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		9	9	9	9	9	9	9	9	9	9
		5	5	5	5	5	5	5	5	5	5
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	1	1	
		2	2	3	3	6	6	9	9	1	2
		2	4	4	6	2	4	0	2	8	0

* TOTALS

ALIMENTARY SYSTEM

Esophagus	+	+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Ileum Hyperplasia, Lymphoid	+	+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	1 2.0
Liver	+	+	+	+	+	+	+	+	+	+	+	10
Pancreas	+	+	+	+	+	+	+	+	+	+	+	10
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	10
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	10
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	10

CARDIOVASCULAR SYSTEM

Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	10
--------------	---	---	---	---	---	---	---	---	---	---	---	----

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

M .. Missing tissue

X .. Lesion present

A .. Autolysis precludes evaluation

I .. Insufficient tissue

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20702 - 01
Test Type: 90-DAY
Route: DOSED FEED
Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
Usnea Lichen
CAS Number: USNEALICHEN

Date Report Requested: 12/03/2020
Time Report Requested: 12:51:12
First Dose M/F: 02/14/09 / 02/14/09
Lab: NCTR

FISCHER 344 RATS-NCTR RATS FEMALE Control 0 PPM	DAY ON TEST ANIMAL ID													* TOTALS
		0 0 9 5												
		0 0 0 0												
Heart Cardiomyopathy		+	+	+	+	+	+	+	+	+	+	+	+	10 3 1.0
1	1	1												

ENDOCRINE SYSTEM														
Adrenal Cortex		+	+	+	+	+	+	+	+	+	+	+	+	10
Adrenal Medulla		+	+	+	+	+	+	+	+	+	+	+	+	10
Islets, Pancreatic		+	+	+	+	+	+	+	+	+	+	+	+	10
Parathyroid Gland		+	+	+	+	+	+	+	+	+	+	+	+	10
Pituitary Gland		+	+	+	+	+	+	+	+	+	+	+	+	10
Thyroid Gland Ectopic Thymus		+	+	+	+	+	+	+	+	+	+	+	+	10 1
X														

GENERAL BODY SYSTEM														
NONE														

GENITAL SYSTEM														
Clitoral Gland		+	+	+	+	+	+	+	+	+	+	+	+	10
Infiltration Cellular, Lymphocyte		1												1 1.0
Inflammation, Suppurative				3	1			2	2					4 2.0
Inflammation, Chronic Active				3						2				2 2.5
Duct, Ectasia					3									1 3.0

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20702 - 01

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Date Report Requested: 12/03/2020

Test Type: 90-DAY

Usnea Lichen

Time Report Requested: 12:51:12

Route: DOSED FEED

CAS Number: USNEALICHEN

First Dose M/F: 02/14/09 / 02/14/09

Species/Strain: RATS/F 344/NCTR

Lab: NCTR

FISCHER 344 RATS-NCTR RATS FEMALE Control 0 PPM	DAY ON TEST ANIMAL ID	0 0 0 0 0 0 0 0 0 0	
		0 0 0 0 0 0 0 0 0 0	
Ovary		+ + + + + + + + + +	10
Uterus Lumen, Dilatation		+ + + + + + + + + + 3 3	10 2 3.0
HEMATOPOIETIC SYSTEM			
Bone Marrow		+ + + + + + + + + +	10
Lymph Node, Mandibular Hyperplasia, Lymphoid		+ + + + + + + + + + 2 2	10 2 2.0
Lymph Node, Mesenteric Hyperplasia, Lymphoid		+ + + + + + + + + + 2 2 2 2	10 4 2.0
Spleen		+ + + + + + + + + +	10
Thymus		+ + + + + + + + + +	10
INTEGUMENTARY SYSTEM			
Mammary Gland		+ + + + + + + + + +	10
Skin		+ + + + + + + + + +	10
MUSCULOSKELETAL SYSTEM			
Bone, Femur		+ + + + + + + + + +	10
NERVOUS SYSTEM			

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

M .. Missing tissue

X .. Lesion present

A .. Autolysis precludes evaluation

I .. Insufficient tissue

BLANK .. Not examined microscopically

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2) Mild 4) Marked

Experiment Number: 20702 - 01

Test Type: 90-DAY

Route: DOSED FEED

Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Usnea Lichen

CAS Number: USNEALICHEN

Date Report Requested: 12/03/2020

Time Report Requested: 12:51:12

First Dose M/F: 02/14/09 / 02/14/09

Lab: NCTR

FISCHER 344 RATS-NCTR RATS FEMALE Control 0 PPM	DAY ON TEST ANIMAL ID	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		9	9	9	9	9	9	9	9	9	9
		5	5	5	5	5	5	5	5	5	5
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	1	1	
		2	2	3	3	6	6	9	9	1	2
		2	4	4	6	2	4	0	2	8	0
		* TOTALS									
Brain, Brain Stem		+	+	+	+	+	+	+	+	+	10
Brain, Cerebellum		+	+	+	+	+	+	+	+	+	10
Brain, Cerebrum		+	+	+	+	+	+	+	+	+	10
RESPIRATORY SYSTEM											
Lung		+	+	+	+	+	+	+	+	+	10
Nose		+	+	+	+	+	+	+	+	+	10
Trachea		+	+	+	+	+	+	+	+	+	10
SPECIAL SENSES SYSTEM											
Eye		+	+	+	+	+	+	+	+	+	10
Harderian Gland		+	+	+	+	+	+	+	+	+	10
Infiltration Cellular, Lymphocyte								1	1		2 1.0
URINARY SYSTEM											
Kidney		+	+	+	+	+	+	+	+	+	10
Mineralization		4	4	4	4	4	4	4	4	4	10 4.0
Urinary Bladder		+	+	+	+	+	+	+	+	+	10

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

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2) Mild 4) Marked

Experiment Number: 20702 - 01

Test Type: 90-DAY

Route: DOSED FEED

Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Usnea Lichen

CAS Number: USNEALICHEN

Date Report Requested: 12/03/2020

Time Report Requested: 12:51:12

First Dose M/F: 02/14/09 / 02/14/09

Lab: NCTR

FISCHER 344 RATS-NCTR RATS FEMALE USNEA 360 PPM	DAY ON TEST ANIMAL ID	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		9	9	9	9	9	9	9	9	9	9
		5	5	5	5	5	5	5	5	5	5
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	1	1	
		0	0	4	4	6	6	9	9	1	1
		6	8	2	4	6	8	4	6	4	6
		* TOTALS									

ALIMENTARY SYSTEM

Esophagus	+	+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Ileum Hyperplasia, Lymphoid	+	+	+	+	+	+	+	+	+	+	+	10
												1 2.0
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	10
Liver	+	+	+	+	+	+	+	+	+	+	+	10
Pancreas Aacinus, Degeneration	+	+	+	+	+	+	+	+	+	+	+	10
												1 1.0
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	10
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	10
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	10

CARDIOVASCULAR SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

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1-4 .. Lesion qualified as:

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Experiment Number: 20702 - 01

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Date Report Requested: 12/03/2020

Test Type: 90-DAY

Usnea Lichen

Time Report Requested: 12:51:12

Route: DOSED FEED

CAS Number: USNEALICHEN

First Dose M/F: 02/14/09 / 02/14/09

Species/Strain: RATS/F 344/NCTR

Lab: NCTR

FISCHER 344 RATS-NCTR RATS FEMALE USNEA 360 PPM	DAY ON TEST ANIMAL ID													* TOTALS
		0 0 9 5												
Blood Vessel		+	+	+	+	+	+	+	+	+	+	+	+	10
Heart Cardiomyopathy		+	+	+	+	+	+	+	+	+	+	+	1	10 1 1.0
ENDOCRINE SYSTEM														
Adrenal Cortex		+	+	+	+	+	+	+	+	+	+	+	+	10
Adrenal Medulla		+	+	+	+	+	+	+	+	+	+	+	+	10
Islets, Pancreatic		+	+	+	+	+	+	+	+	+	+	+	+	10
Parathyroid Gland		+	+	+	+	+	+	+	+	+	+	+	+	10
Pituitary Gland Pars Distalis, Cyst		+	+	+	+	+	+	+	+	+	+	+	+	10 2 2.0
Thyroid Gland Cyst, Squamous Ectopic Thymus		+	+	+	+	+	+	+	+	+	+	+	+	10 1 1.0 2
GENERAL BODY SYSTEM														
NONE		X		X										
GENITAL SYSTEM														
Clitoral Gland Inflammation, Suppurative		+	+	+	+	+	+	+	+	+	+	+	+	10 1 2.0
2														

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

M .. Missing tissue

X .. Lesion present

A .. Autolysis precludes evaluation

I .. Insufficient tissue

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20702 - 01

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Date Report Requested: 12/03/2020

Test Type: 90-DAY

Usnea Lichen

Time Report Requested: 12:51:12

Route: DOSED FEED

CAS Number: USNEALICHEN

First Dose M/F: 02/14/09 / 02/14/09

Species/Strain: RATS/F 344/NCTR

Lab: NCTR

FISCHER 344 RATS-NCTR RATS FEMALE USNEA 360 PPM	DAY ON TEST ANIMAL ID													* TOTALS
		0 0 9 5												
Ovary		+	+	+	+	+	+	+	+	+	+	+	+	10
Uterus Lumen, Dilatation		+	+	+	+	+	+	+	+	+	+	+	+	10
		3		3		3								3 3.0
HEMATOPOIETIC SYSTEM														
Bone Marrow		+	+	+	+	+	+	+	+	+	+	+	+	10
Lymph Node, Mandibular		+	+	+	+	+	+	+	+	+	+	+	+	10
Lymph Node, Mesenteric Hyperplasia, Lymphoid		+	+	+	+	+	+	+	+	+	+	+	+	10
		1	2		2	2								4 1.8
Spleen		+	+	+	+	+	+	+	+	+	+	+	+	10
Thymus		+	+	+	+	+	+	+	+	+	+	+	+	10
INTEGUMENTARY SYSTEM														
Mammary Gland		+	+	+	+	+	+	+	+	+	+	+	+	10
Skin		+	+	+	+	+	+	+	+	+	+	+	+	10
MUSCULOSKELETAL SYSTEM														
Bone, Femur		+	+	+	+	+	+	+	+	+	+	+	+	10
NERVOUS SYSTEM														

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

M .. Missing tissue

X .. Lesion present

A .. Autolysis precludes evaluation

I .. Insufficient tissue

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20702 - 01

Test Type: 90-DAY

Route: DOSED FEED

Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Usnea Lichen

CAS Number: USNEALICHEN

Date Report Requested: 12/03/2020

Time Report Requested: 12:51:12

First Dose M/F: 02/14/09 / 02/14/09

Lab: NCTR

FISCHER 344 RATS-NCTR RATS FEMALE USNEA 360 PPM	DAY ON TEST ANIMAL ID													* TOTALS
		0 0 9 5												
Brain, Brain Stem		+	+	+	+	+	+	+	+	+	+	+	+	10
Brain, Cerebellum		+	+	+	+	+	+	+	+	+	+	+	+	10
Brain, Cerebrum		+	+	+	+	+	+	+	+	+	+	+	+	10
RESPIRATORY SYSTEM														
Lung		+	+	+	+	+	+	+	+	+	+	+	+	10
Nose		+	+	+	+	+	+	+	+	+	+	+	+	10
Trachea		+	+	+	+	+	+	+	+	+	+	+	+	10
SPECIAL SENSES SYSTEM														
Eye		+	+	+	+	+	+	+	+	+	+	+	+	10
Harderian Gland		+	+	+	+	+	+	+	+	+	+	+	+	10
URINARY SYSTEM														
Kidney		+	+	+	+	+	+	+	+	+	+	+	+	10
Casts Protein					1		2	2	1	2				5 1.6
Mineralization		4	4	4	4	4	4	3	4	4	4	4		10 3.9
Urinary Bladder		+	+	+	+	+	+	+	+	+	+	+	+	10

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

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2) Mild 4) Marked

Experiment Number: 20702 - 01

Test Type: 90-DAY

Route: DOSED FEED

Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Usnea Lichen

CAS Number: USNEALICHEN

Date Report Requested: 12/03/2020

Time Report Requested: 12:51:12

First Dose M/F: 02/14/09 / 02/14/09

Lab: NCTR

FISCHER 344 RATS-NCTR RATS FEMALE USNEA 720 PPM	DAY ON TEST ANIMAL ID	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
3	5	3	2	9	3	2	3	3	3	3	3
		5	8	5	5	8	5	3	2	5	5
1	4	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	1	1	1
6	6	1	2	2	5	5	8	8	1	1	1
		6	6	8	0	2	6	8	0	2	2

* TOTALS

ALIMENTARY SYSTEM

Esophagus	+	+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Cecum	+	A	+	+	+	+	+	+	+	+	+	9
Intestine Large, Colon	+	A	+	+	+	+	+	+	+	+	+	9
Intestine Large, Rectum	+	A	+	+	+	+	+	+	+	+	+	9
Intestine Small, Duodenum	+	A	+	+	+	+	+	+	+	+	+	9
Intestine Small, Ileum	+	A	+	+	+	+	+	+	+	+	+	9
Intestine Small, Jejunum	+	A	+	+	+	+	+	+	+	+	+	9
Liver	+	+	+	+	+	+	+	+	+	+	+	10
Hepatocyte, Degeneration	3	4	3	1	3	3	4	4	4	4	3	10 3.2
Pancreas	+	+	+	+	+	+	+	+	+	+	+	10
Vacuolization Cytoplasmic							2					1 2.0
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	10
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	10
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	10

CARDIOVASCULAR SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

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BLANK .. Not examined microscopically

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1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20702 - 01

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Date Report Requested: 12/03/2020

Test Type: 90-DAY

Usnea Lichen

Time Report Requested: 12:51:12

Route: DOSED FEED

CAS Number: USNEALICHEN

First Dose M/F: 02/14/09 / 02/14/09

Species/Strain: RATS/F 344/NCTR

Lab: NCTR

FISCHER 344 RATS-NCTR RATS FEMALE USNEA 720 PPM	DAY ON TEST ANIMAL ID												
		0	0	0	0	0	0	0	0	0	0	0	
3	3	2	9	3	2	3	3	3	3	3	3	3	
5	5	8	5	5	8	5	3	3	2	5	3	5	
0	0	0	0	0	0	0	0	0	0	0	0	0	
0	0	0	0	0	0	0	0	0	0	0	0	0	
0	0	0	0	0	0	0	0	0	1	1	1	1	
1	1	2	2	5	5	8	8	8	1	1	1	1	
4	6	6	8	0	2	6	8	0	2				

* TOTALS

Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	10
Heart	+	+	+	+	+	+	+	+	+	+	+	+	10
Cardiomyopathy													1 1.0

ENDOCRINE SYSTEM

Adrenal Cortex	+	A	+	+	+	+	+	+	+	+	+	+	9
Vacuolization Cytoplasmic	4	4	4	3	3	4	3	4	3	4			8 3.6
Adrenal Medulla	M	A	+	+	+	+	+	+	+	+	+	+	8
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	10
Parathyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	10
Pituitary Gland	+	A	+	+	+	+	+	+	+	+	+	+	9
Thyroid Gland	+	A	+	+	+	+	+	+	+	+	+	+	9
Ectopic Thymus													1
X													

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Clitoral Gland	+	+	+	+	+	+	+	+	+	+	+	+	10
Infiltration Cellular, Lymphocyte	2												2 1.5
Inflammation, Suppurative													4 2.8

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

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Experiment Number: 20702 - 01

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Date Report Requested: 12/03/2020

Test Type: 90-DAY

Usnea Lichen

Time Report Requested: 12:51:12

Route: DOSED FEED

CAS Number: USNEALICHEN

First Dose M/F: 02/14/09 / 02/14/09

Species/Strain: RATS/F 344/NCTR

Lab: NCTR

FISCHER 344 RATS-NCTR RATS FEMALE USNEA 720 PPM	DAY ON TEST ANIMAL ID												
		0	0	0	0	0	0	0	0	0	0	0	
3	3	2	9	3	2	3	3	3	3	3	3	3	
5	5	8	5	5	8	5	3	3	2	5	3	5	
0	0	0	0	0	0	0	0	0	0	0	0	0	
0	0	0	0	0	0	0	0	0	0	0	0	0	
0	0	0	0	0	0	0	0	0	1	1	1	1	
1	1	2	2	5	5	8	8	8	1	1	1	1	
4	6	6	8	0	2	6	8	0	2				

* TOTALS

Duct, Ectasia	3	1 3.0
Ovary	+ + + + + + + + + +	10
Uterus	+ A + + + + + + + +	9
Lumen, Dilatation	2	1 2.0

HEMATOPOIETIC SYSTEM

Bone Marrow	+	A	+	+	+	+	+	+	+	+	+	9	
Hypocellularity	4	4	4	4	4	4	4	3	4			8	3.9
Lymph Node											+	1	
Lumbar, Hyperplasia, Lymphoid											2	1	2.0
Lymph Node, Mandibular	+ A	+	+	+	+	+	+	+	+	+	+	9	
Lymph Node, Mesenteric	+ A	+	+	+	+	+	+	+	+	+	+	9	
Spleen	+	+	+	+	+	+	+	+	+	+	+	10	
Thymus	+	+	+	+	+	+	+	+	+	+	+	10	
Atrophy	4	4	4	4	3	4	4	4	4			8	3.9

INTEGUMENTARY SYSTEM

Mammary Gland	+ A	+	+	+	+	+	+	+	+	+	+	9	
Skin	+ +	+	+	+	+	+	+	+	+	+	+	10	

MUSCULOSKELETAL SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
+ .. Tissue examined microscopically M .. Missing tissue
X .. Lesion present A .. Autolysis precludes evaluation
I .. Insufficient tissue BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:
1) Minimal 3) Moderate
2) Mild 4) Marked

Experiment Number: 20702 - 01

Test Type: 90-DAY

Route: DOSED FEED

Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Usnea Lichen

CAS Number: USNEALICHEN

Date Report Requested: 12/03/2020

Time Report Requested: 12:51:12

First Dose M/F: 02/14/09 / 02/14/09

Lab: NCTR

FISCHER 344 RATS-NCTR RATS FEMALE USNEA 720 PPM	DAY ON TEST ANIMAL ID													* TOTALS
		0 0 3 5	0 0 2 5	0 0 9 5	0 0 3 5	0 0 2 8	0 0 2 8	0 0 3 5	0 0 3 3	0 0 3 2	0 0 3 5	0 0 0 0		
Bone, Femur		+	+	+	+	+	+	+	+	+	+	+	10	
NERVOUS SYSTEM														
Brain, Brain Stem		+	+	+	+	+	+	+	+	+	+	+	10	
Brain, Cerebellum		+	+	+	+	+	+	+	+	+	+	+	10	
Brain, Cerebrum		+	+	+	+	+	+	+	+	+	+	+	10	
RESPIRATORY SYSTEM														
Lung		+	+	+	+	+	+	+	+	+	+	+	10	
Nose		+	A	+	+	+	+	+	+	+	+	+	9	
Trachea		+	+	+	+	+	+	+	+	+	+	+	10	
SPECIAL SENSES SYSTEM														
Eye		+	A	+	+	+	+	+	+	+	+	+	9	
Harderian Gland Infiltration Cellular, Lymphocyte		+	+	+	+	+	+	+	+	+	+	+	10	
													1 1.0	
URINARY SYSTEM														
Kidney Infarct Mineralization		+	+	+	+	+	+	+	+	+	+	+	10	
													1 1.0	
													9 3.1	

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20702 - 01

Test Type: 90-DAY

Route: DOSED FEED

Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Usnea Lichen

CAS Number: USNEALICHEN

Date Report Requested: 12/03/2020

Time Report Requested: 12:51:12

First Dose M/F: 02/14/09 / 02/14/09

Lab: NCTR

FISCHER 344 RATS-NCTR RATS FEMALE USNEA 720 PPM	ANIMAL ID	DAY ON TEST												
		0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	
		3	3	2	9	3	2	3	3	3	3	3	3	
		5	5	8	5	5	8	5	3	2	5	3	5	
		0	0	0	0	0	0	0	0	0	0	0	0	
* TOTALS														
Urinary Bladder		+	A	+	+	+	+	+	+	+	+	+	9	

*** END OF REPORT ***

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

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1-4 .. Lesion qualified as:

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